

Docket No: 11934P1D1D1
Application No: 10/815,791

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Claims 1-86 (canceled).

Claim 87 (withdrawn): A process for forming a mica-filled polypropylene or polypropylene polyethylene copolymer or blend extruded sheet comprising the steps of:

- (a) forming an extrudable admixture of polypropylene or polypropylene polyethylene copolymer or blend resin and mica;
- (b) extruding said extrudable admixture of polypropylene or polypropylene polyethylene copolymer or blend resin and mica at elevated temperature;
- (c) passing the resulting extruded admixture of polypropylene, polypropylene polyethylene copolymer, or blend resin and mica through a multiple roll stack, at least one roll of said roll stack having a matte finish;
- (d) passing said extruded admixture of polypropylene, polypropylene polyethylene copolymer, or blend resin and mica at least partially around said roll having a matte finish;
- (e) controlling the speed of said extrusion process, the size, temperature, and configuration of said roll stack such that the surface of said extruded admixture of polypropylene, polypropylene polyethylene copolymer, or blend resin and mica in contact with said matte roll has a matted structure; and
- (f) recovering an extruded sheet comprising a polypropylene or polypropylene polyethylene copolymer or blend and mica moieties, said sheet having a matted surface.

Claim 88 (withdrawn): The extruded sheet prepared according to the process of claim 87.

Claim 89 (withdrawn): A microwaveable, food contact compatible, disposable, rigid and strong, mica-filled polyolefin container, wherein the polyolefin resin is selected from the group consisting of polypropylene and polypropylene polyethylene copolymer

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or blend, and a mixture of these, and wherein the container is formed by a process comprising the steps of:

- (a) forming an extrudable admixture of the polyolefin resin and mica;
- (b) extruding said extrudable admixture of the polyolefin resin and mica at elevated temperature;
- (c) passing the resulting extruded admixture of the polyolefin resin and mica through a multiple roll stack of rolls, at least one roll of said stack having a matte finish;
- (d) passing said extruded admixture of the polyolefin resin and mica at least partially around said roll having a matte finish;
- (e) controlling the speed of said extrusion process, the size, temperature, and configuration of said roll stack such that the surface of said extruded admixture of the polyolefin resin and mica not in contact with said matte roll has a coarse-grained structure;
- (f) thermoforming said extruded admixture of the polyolefin resin and mica; and
- (g) recovering a container having a micronodular surface and a rough surface and exhibiting a melting point of no less than 250°F, said container being dimensionally stable and resistant to grease, sugar, and water at temperatures up to about 220°F and having sufficient toughness to be resistant to cutting by serrated flatware.

Claim 90 (withdrawn): The microwaveable, food contact compatible, disposable, rigid and strong, mica-filled polyolefin container according to claim 89, wherein the container is a plate.

Claim 91 (withdrawn): The microwaveable, food contact compatible, disposable, rigid and strong, mica-filled polyolefin container according to claim 89, wherein the container is a cup.

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Claim 92 (withdrawn): The microwaveable, food contact compatible, disposable, rigid and strong, mica-filled polyolefin container according to claim 89, wherein the container is a bowl.

Claim 93 (withdrawn): The microwaveable, food contact compatible, disposable, rigid and strong, mica-filled polyolefin container according to claim 89, wherein the container is a tray.

Claim 94 (withdrawn): The microwaveable, food contact compatible, disposable, rigid and strong, mica-filled polyolefin container according to claim 89, wherein the container is a bucket.

Claim 95 (withdrawn): The microwaveable, food contact compatible, disposable, rigid and strong, mica-filled polyolefin container according to claim 89, wherein the container is a soufflé dish.

Claims 96-97 (canceled).

Claim 98 (currently amended): The process of claim ~~96~~ 108, wherein the platy inorganic material is mica.

Claim 99 (canceled).

Claim 100 (currently amended): The process of claim ~~96~~ 108, wherein thermoforming the container comprises at least one of drape, vacuum, pressure, free blowing, matched die, billow drape, vacuum snap-back, billow vacuum, plug assist vacuum, plug assist pressure, pressure reverse draw with plug assist vacuum, reverse draw with plug assist, pressure bubble immersion, trapped sheet, slip, diaphragm, twin-sheet cut sheet, twin-sheet rolled forming, and pillow forming.

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Claim 101 (currently amended): The process of claim 96 108, wherein thermoforming the container comprises vacuum forming the container in a mold controlled to form the micronodular surface on the surface of the container not in contact with the mold surface.

Claim 102 (currently amended): The process of claim 96 108, wherein the extruded sheet further comprises at least one additive chosen from coupling agents, process aids, lubricants, nucleating agents, antistatic agents, antioxidants, and coloring agents.

Claim 103 (currently amended): The process of claim 96 108, wherein at least one additive is present in the admixture mixture.

Claim 104 (previously presented): The process of claim 102, wherein the coupling agent comprises at least one of: silanes; organofunctional silicone compounds; chlorinated hydrocarbons with and without silane; in situ polymerization products of monomers; modified polyolefins; maleic anhydride; acrylic modified polypropylene; and maleic anhydride modified polypropylene.

Claim 105 (previously presented): The process of claim 102, wherein the process aid comprises at least one of waxes and fluorinated polymers.

Claim 106 (previously presented): The process of claim 102, wherein the coloring agent comprises at least one of pigments and dyes.

Claim 107 (previously presented): The process of claim 106, wherein the pigment comprises at least one of carbon black, titanium dioxide, zinc oxide, iron oxides, and mixed metal oxides.

Claim 108 (new): A process for preparing a container comprising:

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- (a) providing at least one extruded sheet prepared from a mixture of:
 - i) mica; and
 - ii) a polyolefin comprising polypropylene, polypropylene-polyethylene copolymer or a blend of polypropylene and polyethylene, and
- (b) thermoforming the sheet at least about 265°F, thereby providing a container that:
 - i) is dimensionally stable;
 - ii) is resistant to deformation from grease, sugar or water contact of up to at least about 220°F;
 - iii) is resistant to cutting by serrated polystyrene flatware;
 - iv) has a melting point of no less than about 250°F; and
 - v) has a micronodular surface comprising at least one side.

109 (new): The container prepared according to the process of claim 108.